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### NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 09/02/2010

David Kennett, Director Ramet Holdings Ltd (NZ) Royal Oak PO Box 24422 Auckland, NEW ZEALAND EXAMINER

LOW, LINDSAY M

PAPER NUMBER

ART UNIT

DATE MAILED: 09/02/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/573,021	03/22/2006	David Kennett	P71178US0	2540		
TITLE OF INVENTION, IT ECTRIC BOST DRIVED						

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	12/02/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NOT THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used f correspondence includir ed below or directed oth	or trans ig the P ierwise	mitting the ISSU atent, advance of in Block 1, by (a	JE FEE and PUBLICA rders and notification of a) specifying a new con	ATIO! of mai rrespo	N FEE (if requi intenance fees w ondence address;	red). I ill be and/or	Blocks 1 through 5 sh mailed to the current (b) indicating a sepa	tould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDING ADDRESS obser: Use Book 1 for any change: of address)  7590 99/02/2010  David Kennett, Director Ramet Holdings Ltd (NZ) Royal Oak				N Fo ps	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
				11	Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the U. States Postal Service with sufficient postage for first class smail in an enve addressed to the Mail Stop ISSUE FEE address above, or being facis transmitted to the USPIO (571) 272-2885, on the date indicated below.				nission deposited with the United
PO Box 24422 Auckland,				Г					(Depositor's name)
NEW ZEALAN	D								(Signature)
									(Date)
APPLICATION NO.	NO. FILING DATE		FIRST NAMED INVEST		OR	R ATTORNEY DOC		RNEY DOCKET NO.	CONFIRMATION NO.
10/573,021	03/22/2006			David Kennett				P71178US0	2540
TITLE OF INVENTION	: ELECTRIC POST DR	VER							
APPLN. TYPE	SMALL ENTITY	ISS	UE FEE DUE	PUBLICATION FEE DUI	E P	REV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES		\$755	\$300		\$0		\$1055	12/02/2010
EXAM	INER		ART UNIT	CLASS-SUBCLASS	$\neg$				
LOW, LIN	DSAY M		372I	173-091000					
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A		' Indica ed. Use A TO BI	tion form of a Customer PRINTED ON		ativel ngle f or age attorne be pri	ly, firm (having as a int) and the name eys or agents. If i inted.	memb es of u no nam	er a 2p to e is 3	cument has been filed for
Please check the appropri	iate assignee category or	categor			□ In	ndividual 🗖 Co	rporati	on or other private gro	up entity Government
4a. The following fee(s) are submitted:  Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies				A check is enclosed.    A check is enclosed.   Payment by credit card. Form PTO-2038 is attached.   Payment by credit card. Form PTO-2038 is attached.   The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	s SMALL ENTITY state	s. See 3	7 CFR 1.27.	☐ b. Applicant is no le					
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req records of the United Sta	iired) w tes Pate	ill not be accepte nt and Trademark	d from anyone other than Office.	ın the	applicant; a regi	stered a	attorney or agent; or th	e assignee or other party in
Authorized Signature						Date			
Typed or printed name						Registration N			
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NEW ZEALAND

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10/573,021	03/22/2006	David Kennett	P71178US0	2540	
75	90 09/02/2010		EXAMINER		
David Kennett, D	irector	LOW, LINDSAY M			
Ramet Holdings Lt	d (NZ)		ART UNIT	PAPER NUMBER	
Royal Oak PO Box 24422 Auckland.			3721 DATE MAILED: 09/02/201	0	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 66 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 66 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)				
10/573,021	KENNETT, DAVID				
Examiner	Art Unit	1			
LINDSAY M. LOW	2724	ı			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1309.

- This communication is responsive to Amendment filed May 27<sup>th</sup>, 2010.
- The allowed claim(s) is/are 86-111.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All b) Some\* c) None of the:
    - 1. A Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_
      - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) Thereto or 2) to Paper No./Mail Date
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. Notice of References Cited (PTO-892)

of Biological Material

- 2. 
  Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance

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# REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: the primary reason for allowance is the combination of using a linear induction motor to drive an impact tool. The linear induction motor rapidly accelerates a ram to transfer an impact force to an elongate object, such as a pile, to drive the elongate object into a body. The linear induction motor also retracts the ram back to an initial position. Furthermore, due to the acceleration force of the linear induction motor, the device can drive an elongate object into a body in different planes (vertical, horizontal, etc.).

- 2. Regarding the prior art, in particular Jacquement (4,799,557), the reference discloses a ram that is driven to transfer an impact force to a pile. Jacquement's device furthermore discloses an electromagnet to retract the ram to an initial position. However, Jacquement's motor is an electromagnet instead of a linear induction motor and relies solely on the acceleration of gravity to transfer an impact force to a pile.
- 3. Regarding another prior art reference, Martin (4,844,661) discloses a ram that is driven to transfer an impact force to an elongate object. Martin discloses an electromagnet that is used to retract the ram to an initial position. When the device is in the initial position, the electromagnet switches polarity to cause acceleration to the ram to drive it. This initial acceleration is accompanied by the acceleration of gravity to drive the ram. However, although Martin discloses accelerating the ram with a force in addition to the acceleration of gravity, Martin does not disclose using a linear induction motor for accelerating the ram.

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4. Regarding another prior art reference, Rice (4,390,307), discloses an underwater pile where its movement is controlled by a linear induction motor. The linear induction motor is operated at "near stand-still conditions" to slowly drive a pile into an underwater seabed. While Rice's device does use a linear induction motor to drive an elongate object, Rice does not disclose a ram to transfer an impact force, and instead directly drives the pile with little to no impact force. In addition, Rice's elongate object is not accelerated at an increasing rate and Rice avoids the use of any impulse forces to drive the pile as discussed in col. 1 lines 18-22.

- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- Any inquiry concerning this communication or earlier communications from
  the examiner should be directed to LINDSAY M. LOW whose telephone number
  is (571)272-1196. The examiner can normally be reached on Monday thru
  Friday 9:00 to 5:00pm.
- 7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi Rada can be reached on 571-272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/573,021

Art Unit: 3721

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lindsay M Low/ Examiner, Art Unit 3721

/Rinaldi I Rada/ Supervisory Patent Examiner, Art Unit 3721